

IN THE CLAIMS

1. (Currently Amended) A medical device, comprising:
an elongate body comprising a proximal end, a distal end, an outer sheath, and a conductor extending within the sheath and between the proximal and distal ends of the body;
the sheath having an overall length[[:]]; and including a retaining segment extending along a length, which is less than the overall length of the body; the retaining segment forming a fixed portion of an outer surface of the body sheath and including a plurality of projections extending from the portion of the outer surface;
wherein the plurality of projections are adapted to interfere with a wall of a generally tubular vessel to retain the body within the vessel[.]; and
wherein the plurality of projections lie approximately parallel with the portion of the outer surface when the length is approximately straight and protrude laterally from the portion of the outer surface when the length is bent.
2. (Currently Amended) The device of claim 1, wherein the body includes a distal end and the length is positioned in proximity to the distal end of the body.
3. (Currently Amended) The device of claim 1, wherein the body includes a proximal end and the length is positioned in proximity to the proximal end of the body.
4. (Currently Amended) The device of claim 1, wherein the retaining segment extends about an entire circumference of the sheath lead body.
5. (Currently Amended) The device of claim 1, wherein the retaining segment extends about a portion of a circumference of the sheath body.

6. Canceled

7. (Currently Amended) [[The]] A medical device of claim 1, comprising: an elongate body comprising a proximal end, a distal end and a sheath having a length extending between the proximal and distal ends; and wherein the retaining segment is formed on a collar positioned about the body and having a length less than the sheath length, the collar forming a fixed portion of an outer surface of the body and including a plurality of projections extending from the portion of the outer surface;
wherein the plurality of projections are adapted to interfere with a wall of a generally tubular vessel to retain the body within the vessel; and
the plurality of projections lie approximately parallel with the portion of the outer surface when the length of the collar is approximately straight, and protrude laterally from the outer surface when the length of the collar is bent.

8. – 9. Canceled

Claim 10. (Canceled)

11. Canceled

12. (Original) The device of claim 1, further comprising a dissolvable coating temporarily covering the plurality of projections.

13. (Original) The device of claim 1, further comprising a thin walled tube-covering deployable over the plurality of projections.

14. (Currently Amended) The device of claim 1, wherein the body includes at least one preformed curve in proximity to the retention retaining segment.

15. (Original) The device of claim 14, wherein the at least one preformed curve includes a first curve positioned proximal to the retaining segment and a second curve positioned distal to the retaining segment.

16. (Original) The device of claim 14, wherein the at least one preformed curve includes a curve positioned proximal to the retaining segment.

17. (Original) The device of claim 14, wherein the at least one preformed curve includes a curve positioned distal to the retaining segment.

18. (Currently Amended) The device of claim 14, wherein the one or more preformed curves include a curve positioned along the length of the body over which the retaining segment extends.

19. (Original) The device of claim 1, wherein each of the plurality projections have a length greater than approximately 100 microns.

20. (Original) The device of claim 19, wherein the projection length is between approximately 100 microns and approximately 1 mm.

21. (Original) The device of claim 19, wherein the projection length is greater than approximately 1 mm.

22. (Original) The device of claim 1, wherein the length of the body over which the retaining segment extends is greater than or equal to approximately 1 mm.

23. (Original) The device of claim 22, wherein the length is greater than approximately 5 mm.

24. (Original) The device of claim 1, wherein a plasma deposition process forms the plurality of projections.
25. (Original) The device of claim 1, wherein a molding process forms the plurality of projections.
26. (Original) The device of claim 1, wherein an extrusion process forms the plurality of projections.
27. (Original) The device of claim 1, wherein a cutting process forms the plurality of projections.
28. (Original) The device of claim 1, wherein a laser ablation process forms the plurality of projections.
29. (Currently Amended) [[The]] A medical device of claim 1, comprising: an elongate body; and a retaining segment extending along a length of the body and forming a fixed portion of an outer surface of the body;
the retaining segment comprising a first material and a plurality of projections, each of the plurality of projections being formed from a second material separate from the first material, and the projections extending from the fixed portion of the outer surface;
wherein the projections are embedded in the first material of the retaining segment;
the second material forming each projection is selected from the group consisting of metal particles, hard plastic particles, carbon particles, polymer fibers, and carbon fibers; and
the projections are adapted to interfere with a wall of a generally tubular vessel to retain the body within the vessel.

30. (Original) The device of claim 1, wherein the projections are included in a coating adhered to the retaining segment.

31. – 32. Canceled

33. (Original) The device of claim 7, wherein the collar is formed from a bioabsorbable material.

34. (Original) The device of claim 7, wherein the collar is formed of a material comprising silicone.

35. (Original) The device of claim 7, wherein the collar is formed of a material comprising polyurethane.

36. (Original) The device of claim 1, wherein the plurality of projections are fish scale-like.

37. (Withdrawn) The device of claim 1, wherein the plurality of projections are hair-like.

38. (Withdrawn) A medical device, comprising:
an elongate body; and
a retaining segment extending along a length of the body, forming a fixed portion of an outer surface of the body and including a plurality of hair-like projections extending from the portion of the outer surface;
wherein the plurality of projections are adapted to interfere with a wall of a generally tubular vessel to retain the body within the vessel, and wherein the hair-like projections comprise a bioabsorbable polymer.

39. (Withdrawn) A medical device, comprising:
an elongate body; and
a retaining segment extending along a length of the body, forming a fixed portion of an outer surface of the body and including a plurality of hair-like projections extending from the portion of the outer surface;
wherein the plurality of projections are adapted to interfere with a wall of a generally tubular vessel to retain the body within the vessel, and wherein the hair-like projections comprise a material promoting thrombotic adhesion with the vessel wall.

40. (Withdrawn) The device of claim 39, wherein the hair-like projections further comprise a dissolvable non-thrombogenic coating.

41. (Withdrawn) The device of claim 1, wherein the plurality of projections are barb-like.

42. (Withdrawn) The device of claim 1, wherein the plurality of projections are tread-like.

43. (Currently Amended) The device of claim [[1]] 29, wherein the retaining segment further includes a proximal end and each of the plurality of projections includes a terminal edge directed toward the proximal end of the retaining segment.

44. (Currently Amended) The device of claim [[43]] 29, further comprising a dissolvable coating temporarily covering the plurality of projections.

45. (Currently Amended) The device of claim [[43]] 29, further comprising a thin walled tube-covering deployable over the plurality of projections.

46. (Currently Amended) The device of claim [[43]] 29, wherein the body includes at least one preformed curve in proximity to the retention segment.

47. (Original) The device of claim 46, wherein the at least one preformed curve includes a first curve positioned proximal to the retaining segment and a second curve positioned distal to the retaining segment.

48. (Original) The device of claim 46, wherein the at least one preformed curve includes a curve positioned proximal to the retaining segment.

49. (Original) The device of claim 46, wherein the at least one preformed curve includes a curve positioned distal to the retaining segment.

50. (Original) The device of claim 46, wherein the one or more preformed curves include a curve positioned along the length of the body over which the retaining segment extends.

51. (Currently Amended) [[The]] A medical device of claim 1, comprising:
an elongate body; and
a retaining segment extending along a length of the body and forming a
fixed portion of an outer surface of the body, the retaining segment including a
plurality of projections extending from the portion of the outer surface;
wherein the plurality of projections are adapted to interfere with a wall of a
generally tubular vessel in order to retain the body within the vessel; and
one or more of the plurality of projections include micro-features
enhancing for interfacing with the vessel wall, when the projections interfere with
the wall, in order to enhance engagement of the one or more projections with the
vessel wall.

52. – 57. Canceled

Claims 58-60 (Canceled)

61. (New) A medical device, comprising:

- an elongate body including a proximal end and a distal end; and
- a retaining segment extending along a length of the body and forming a fixed portion of an outer surface of the body, the retaining segment comprising a plurality of projections extending from the portion of the outer surface at an angle, the projections being disposed adjacent to one another along the length;
- wherein each of the projections extends about an entirety of a circumference of the body;
- each of the projections includes a terminal end directed toward the proximal end of the body; and
- the plurality of projections are adapted to interfere with a wall of a generally tubular vessel to retain the body within the vessel.